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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/625,753

07/23/2003

Eric Jeffrey

VP065

8133

20178

7590

06/14/2007

EPSON RESEARCH AND DEVELOPMENT INC  
INTELLECTUAL PROPERTY DEPT  
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EXAMINER

DO, ANH HONG

ART UNIT

PAPER NUMBER

2624

MAIL DATE

DELIVERY MODE

06/14/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No. 10/625,753	Applicant(s) JEFFREY ET AL.	
	Examiner ANH H. DO	Art Unit 2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 23 March 2007.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 5, 7-25, 28, and 30-34 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments with respect to claims 1, 2, 5, 7-25, 28, and 30-34 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 2, 5, 7-25, 28, and 30-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over the prior art described in the application (hereafter the "PAA") in view of Katoh et al. (U.S. Patent No. 7,202,917).

Regarding claim 1, the PAA discloses:

- receiving image data from a data stream (specification, page 9, lines 2-3 and Fig. 10: receiving a JPEG file (i.e., an image data from a data stream));
- transforming the image data as it is received by selectively storing some of the image data in a memory for access by the display device 24 as shown in Fig. 2 and discarding other of the image data (see Fig. 4: discarding every other pixel 30 in a row).

The PAA does not explicitly teach a predetermined order of pixel components.

Katoh teaches the image data is in a predetermined order of pixel components (col. 7, lines 9-12: pixel components; and col. 7, lines 26-29: a predetermined order).

The PAA & Katoh are combinable because they are from image display.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to employ the pixel components in a predetermined order in the PAA as taught by Katoh.

The suggestion/motivation for doing so would have been to effectively contribute downsize and cost reduction (see Katoh, col. 4, lines 1-3).

Therefore, it would have been obvious to combine the PAA with Katoh to obtain the invention as specified in claim 1.

Regarding claim 12, since this claim is an apparatus claim corresponding to method claim 1, the discussion of claim 1 is applied hereto.

Regarding claim 24, the PAA discloses a CPU 84 (i.e., a computer) (Fig. 11) for performing the steps in claim 1.

Regarding claims 2, 13, and 25, the PAA teaches receiving a first data element corresponding to a line of the display 24 at a first time, wherein said selectively storing image data includes storing said first data element at a second time subsequent to the first time, and wherein receiving a second data element corresponding to the same said line at a third time subsequent to said second time (Fig. 2 and page 4, lines 22-30: updating pixels line-by-line in raster sequence in the display device 24 from time to time and storing the pixels in memory in raster sequence).

Regarding claims 7, 14, 15, 17, 18, and 30, Katoh teaches the data element is a pixel component (col. 7, lines 9-12).

Regarding claims 5, 16, and 28, the PAA teaches receiving first and second data elements consecutively (see Fig. 2 and page 4, lines 22-30).

Regarding claims 8, 19, and 31, the PAA teaches receiving the image data from a CODEC (see Fig. 10 and page 9, lines 2-5).

Regarding claims 9, 20, and 32, the PAA teaches JPEG decoded block-interleaved data (see Fig. 10 and page 9, lines 9-10).

Regarding claims 10, 21, and 33, the PAA teaches cropping the image (Fig. 3 and page 5, lines 5-10).

Regarding claims 11, 22, and 34, the PAA teaches scaling the image (Fig. 4 and page 5, lines 16-26).

Regarding claim 23, the PAA teaches a graphic controller 86 (Fig. 11).

### ***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANH H. DO whose telephone number is 571-272-7433. The examiner can normally be reached on 5/4-9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EILEEN LILLIS can be reached on 571-272-6928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2624

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 11, 2007

A handwritten signature in black ink, appearing to read "maull", with a long horizontal flourish extending to the right.

**ANH HONG DO**  
**PRIMARY EXAMINER**